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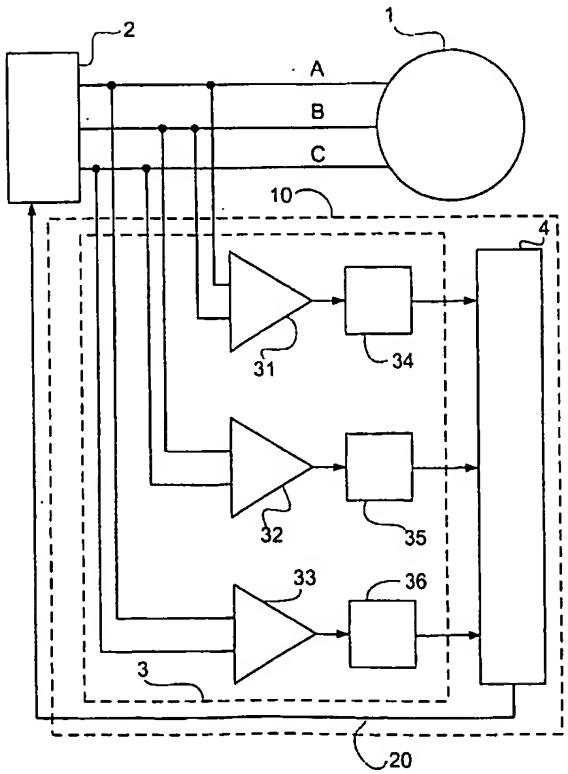
(54) Title: METHOD AND DEVICE FOR CONTROLLING A SYNCHRONOUS MOTOR WITH PERMANENT MAGNETS



(57) Abstract: The electronic device (10) for controlling a motor (1), the three phases (A, B, C) of which are driven by a motor driver (2), comprises detection means (3) and a control circuit (4). The detection means comprise three high-gain differential amplifiers (31, 32, 33) and three A/D converters (34, 35, 36). The detection means detect back EMF voltages induced by the motor rotation and apply corresponding signals to the control circuit. The control circuit computes the position and/or the speed of the motor and then delivers filtered values from said computed rotor position and/or speed to control the motor driver. The motor may thus be controlled even at near-zero rotational speed.

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